

California State Lands Commission
Mineral Resources Management Division
Oil and Gas Safety Audit
Program Status



MRMD Safety Audits

Completed MRMD Safety Audit

Platform Holly (Santa Barbara County)	with SB County Agencies and Venoco	1999
Rincon Island (Ventura County)	with Rincon Island Limited Partnership	2000
Long Beach Unit (Los Angeles County)	with Paragon Engineering Services, City of Long Beach/ARCO/ THUMS	2000

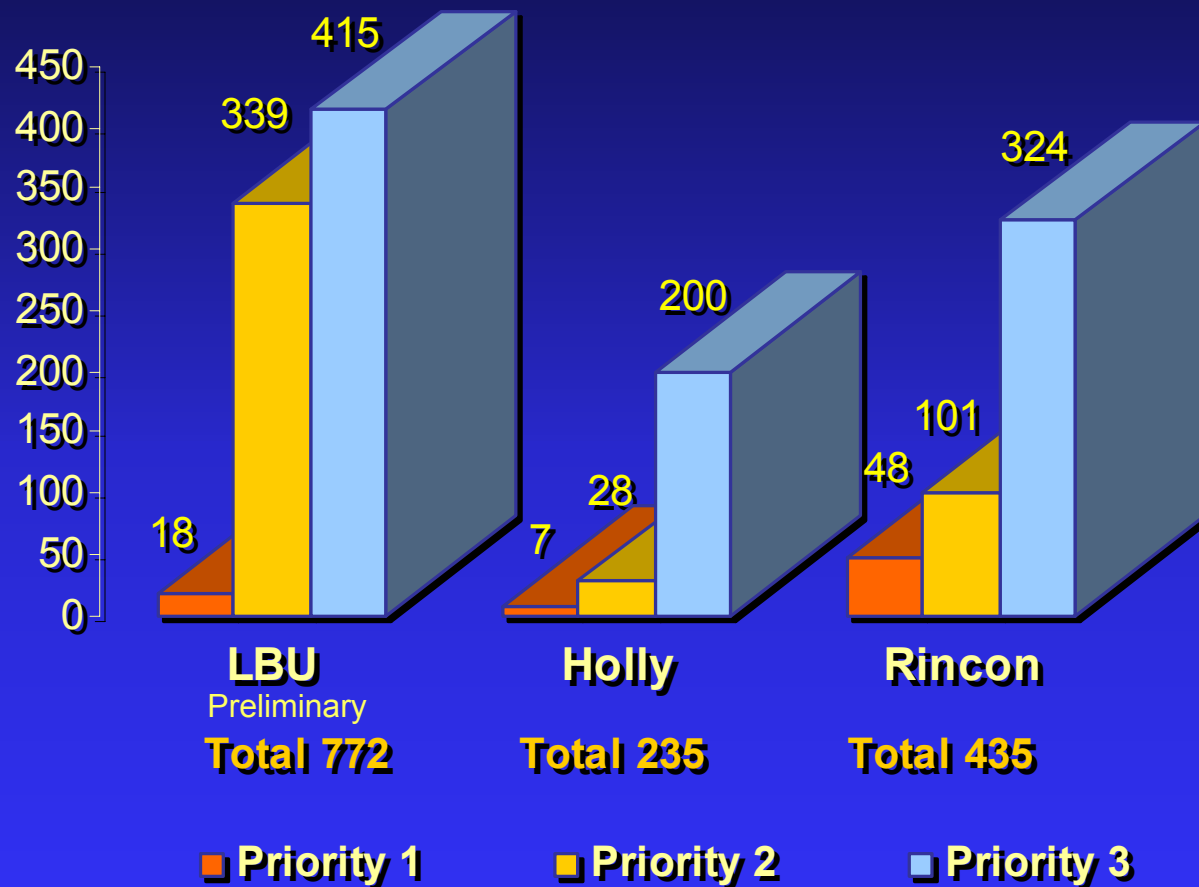
Current MRMD Safety Audits

Long Beach Unit	with City of Long Beach/ Occidental Petroleum/THUMS	2002
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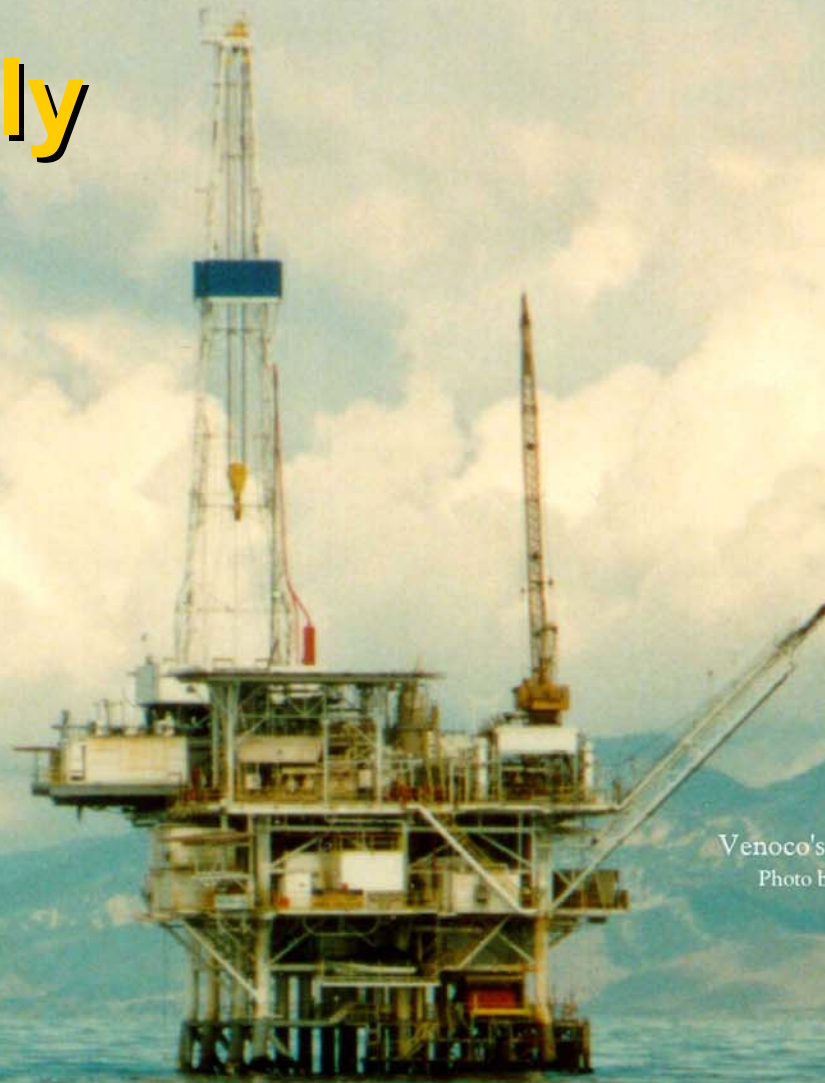
Program Objectives

- Ensure that each company has a comprehensive safety and environmental program.
- Ensure that each facility is designed, maintained, and operated in a manner compliant with current industry codes, regulations, and best achievable protection.

Number of Action Items



Platform Holly



Venoco's Platform Holly

Photo by Mike Edwards
2000

Platform Holly Major Improvements

- Installed new emission containment systems.
- Upgraded gas and fire detection systems.
- Installed additional gas compressor safety sensors.
- Implemented comprehensive Preventive Maintenance and training programs.
- Redesigned emergency power system.
- Invested over \$1.2 million in facility and system upgrades.

Long Beach Unit



Long Beach Unit Major Improvements

- Installed automatic shutdown valves on subsea oil pipelines
- Corrected safety valve settings on pressure vessels
- Reviewed and updated operating procedures.
- Corrected electrical code deficiencies.
- Invested over \$1.5 million in facility and systems upgrades.

Rincon Island



Rincon Island Major Improvements

- Replaced the gas shipping pipeline to shore.
- Re-engineered and augmented fire detection and suppression systems.
- Integrated gas compressor safety devices into the automatic shut down system.
- Implemented comprehensive Preventive Maintenance and safety training programs.
- Invested over \$1.0 million in facility and systems upgrades.

Scheduled Safety Audits

Platform Emmy and Huntington Beach Strip	AERA Energy (Orange County)	2002
Platforms Esther and Eva and Ft Apache	Nuevo Energy and Torch Operating Company (Orange County)	2002/2003
West Wilmington Operating Areas	City of Long Beach and Tidelands Oil Production Company (Los Angeles County)	2003/2004

Safety Audit Benefits

- Modernizes the facility's safety system design.
- Ensures complete compliance with safety standards and regulations.
- Improves maintenance and training programs.
- Upgrades Operator's safety culture and safety management systems.
- Provides a guideline for re-engineering our monthly inspection program.
- Significantly improves our existing monthly inspection program.

Compelling Reasons for Continuing the Safety Audit Program

- Aging offshore oil and gas production facilities require periodic reviews.
- Safety and operating system standards change every 3 to 5 years.
- Facilities were transferred from major oil companies to mid size companies.
- The facilities need to meet current standards before assignments.

Major Benefits

- Greatly reduce the likelihood of environmental damage or a major catastrophe that could affect public health and safety.
- Ensures Best Achievable Protection
- Ensure continued revenue to the State

